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(FILE 'HOME' ENTERED AT 16:28:08 ON 17 OCT 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
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CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:28:15 ON
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SEA PLASMID OR VECTOR

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QUE PLASMID OR VECTOR

FILE 'BIOSIS, CAPLUS, SCISEARCH, PASCAL, DGENE, MEDLINE, EMBASE' ENTERED
AT 16:30:06 ON 17 OCT 2002

L2	37 S L1 AND KETOGULONIGENIUM
L3	26 S L2 AND REPLICON
L4	26 DUP REM L3 (0 DUPLICATES REMOVED)
L5	0 S L2 AND PY<2000

=> d 14 ibib ab 16-26

L4 ANSWER 16 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18312 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -

INVENTOR: D'Elia J

PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I) D'ELIA J.

PATENT INFO: WO 2001077347 A2 20011018

66p

APPLICATION INFO: WO 2001-US11059 20010405

PRIORITY INFO: US 2000-194625P 20000405

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and *Escherichia coli*, enable the cloning of certain genes of **Ketogulonigenium** in *E.coli* as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments

of

the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 17 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18311 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -

INVENTOR: D'Elia J

PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I) D'ELIA J.

PATENT INFO: WO 2001077347 A2 20011018

66p

APPLICATION INFO: WO 2001-US11059 20010405

PRIORITY INFO: US 2000-194625P 20000405

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and *Escherichia coli*, enable the cloning of

certain genes of **Ketogulonigenium** in *E.coli* as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 18 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18310 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising
Ketogulonigenium replicon found on a
specific deposited endogenous **plasmid**, useful for
producing polypeptides and/or transcripts by culturing host
cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors**
comprising a **Ketogulonigenium replicon** found on the
endogenous **plasmid**, pADM291. The invention also describes
methods of transforming host cells with the **vectors** and
producing polypeptides and/or antisense transcripts by culturing the
transformed host cells. The **vectors** are useful for transforming
a host cell by conjugation or electroporation. The **vectors**
which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of
certain genes of **Ketogulonigenium** in *E.coli* as the latter is an
efficient host for amplification of **vector** DNA.
AAS18310-AAS18325 represent PCR primers used to generate DNA fragments
of the **Ketogulonigenium** endogenous **plasmid** pADM291 in
the methods of the present invention.

L4 ANSWER 19 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18309 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising
Ketogulonigenium replicon found on a
specific deposited endogenous **plasmid**, useful for
producing polypeptides and/or transcripts by culturing host
cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]
AB The present invention relates to the isolation of **vectors**
comprising a **Ketogulonigenium replicon** found on the
endogenous **plasmid**, pADM291. The invention also describes
methods of transforming host cells with the **vectors** and
producing polypeptides and/or antisense transcripts by culturing the
transformed host cells. The **vectors** are useful for transforming
a host cell by conjugation or electroporation. The **vectors**
which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of
certain genes of **Ketogulonigenium** in *E.coli* as the latter is an
efficient host for amplification of **vector** DNA. The present DNA

sequence represents the region of **Ketogulonigenium** endogenous
plasmid pADM291 that supports **plasmid vector**
replication.

L4 ANSWER 20 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18308 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a
specific deposited endogenous **plasmid**, useful for
producing polypeptides and/or transcripts by culturing host
cells transformed with **vector** -

INVENTOR: D'Elia J

PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I) D'ELIA J.

PATENT INFO: WO 2001077347 A2 20011018

66p

APPLICATION INFO: WO 2001-US11059 20010405

PRIORITY INFO: US 2000-194625P 20000405

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors**
comprising a **Ketogulonigenium replicon** found on the
endogenous **plasmid**, pADM291. The invention also describes
methods of transforming host cells with the **vectors** and
producing polypeptides and/or antisense transcripts by culturing the
transformed host cells. The **vectors** are useful for transforming
a host cell by conjugation or electroporation. The **vectors**
which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of
certain genes of **Ketogulonigenium** in *E.coli* as the latter is an
efficient host for amplification of **vector** DNA. The present DNA
sequence represents the shuttle **vector plasmid**
pADM291-4.

L4 ANSWER 21 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18307 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a
specific deposited endogenous **plasmid**, useful for
producing polypeptides and/or transcripts by culturing host
cells transformed with **vector** -

INVENTOR: D'Elia J

PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I) D'ELIA J.

PATENT INFO: WO 2001077347 A2 20011018

66p

APPLICATION INFO: WO 2001-US11059 20010405

PRIORITY INFO: US 2000-194625P 20000405

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors**
comprising a **Ketogulonigenium replicon** found on the
endogenous **plasmid**, pADM291. The invention also describes
methods of transforming host cells with the **vectors** and
producing polypeptides and/or antisense transcripts by culturing the
transformed host cells. The **vectors** are useful for transforming
a host cell by conjugation or electroporation. The **vectors**
which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of
certain genes of **Ketogulonigenium** in *E.coli* as the latter is an
efficient host for amplification of **vector** DNA. The present DNA
sequence represents the **Ketogulonigenium** endogenous
plasmid pADM291.

L4 ANSWER 22 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18306 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising
Ketogulonigenium replicon found on a
specific deposited endogenous **plasmid**, useful for
producing polypeptides and/or transcripts by culturing host
cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors**
comprising a **Ketogulonigenium replicon** found on the
endogenous **plasmid**, pADM291. The invention also describes
methods of transforming host cells with the **vectors** and
producing polypeptides and/or antisense transcripts by culturing the
transformed host cells. The **vectors** are useful for transforming
a host cell by conjugation or electroporation. The **vectors**
which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of
certain genes of **Ketogulonigenium** in *E.coli* as the latter is an
efficient host for amplification of **vector** DNA. The present DNA
sequence represents the **replicon** of **Ketogulonigenium**
endogenous **plasmid** pADM291.

L4 ANSWER 23 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS17226 DNA DGENE

TITLE: New bacterium of **Ketogulonigenium** genus, useful for
producing 2-keto-L-gulonic acid from sorbose or sorbitol,
comprises transgene containing DNA sequence from endogenous
Ketogulonigenium plasmid -

INVENTOR: D'Elia J; Stoddard S F
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
(STOD-I) STODDARD S F.
PATENT INFO: WO 2001077348 A2 20011018 116p
APPLICATION INFO: WO 2001-US11097 20010405
PRIORITY INFO: US 2000-194627P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-041295 [05]

AB The present invention relates to a new bacterium of genus
Ketogulonigenium. **Ketogulonigenium** may further comprise
a transgene, comprising a DNA sequence from an endogenous
Ketogulonigenium plasmid. Methods for transforming
Ketogulonigenium are also described. The invention is useful for
producing 2-keto-L-gulonic acid (2-KLG) from L-sorbose or sorbitol. The
present sequence represents the nucleotide sequence of **replicon**
#2 on the **Ketogulonigenium** endogenous **plasmid**
pADMX6L1. Note: The present sequence for SEQ ID No 5 given in the
sequence listing is different from that given for SEQ ID No 5 in Fig 5
(AAS17123).

L4 ANSWER 24 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS17225 DNA DGENE

TITLE: New bacterium of **Ketogulonigenium** genus, useful for
producing 2-keto-L-gulonic acid from sorbose or sorbitol,
comprises transgene containing DNA sequence from endogenous
Ketogulonigenium plasmid -

INVENTOR: D'elia J; Stoddard S F
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
(STOD-I) STODDARD S F.

PATENT INFO: WO 2001077348 A2 20011018 116p
APPLICATION INFO: WO 2001-US11097 20010405
PRIORITY INFO: US 2000-194627P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-041295 [05]

AB The present invention relates to a new bacterium of genus **Ketogulonigenium**. **Ketogulonigenium** may further comprise a transgene, comprising a DNA sequence from an endogenous **Ketogulonigenium plasmid**. Methods for transforming **Ketogulonigenium** are also described. The invention is useful for producing 2-keto-L-gulonic acid (2-KLG) from L-sorbose or sorbitol. The present sequence represents the nucleotide sequence of the **replicon** on the **Ketogulonigenium** endogenous **plasmid** pADMX6L3.

L4 ANSWER 25 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS17124 DNA DGENE

TITLE: New bacterium of **Ketogulonigenium** genus, useful for producing 2-keto-L-gulonic acid from sorbose or sorbitol, comprises transgene containing DNA sequence from endogenous **Ketogulonigenium plasmid** -

INVENTOR: D'Elia J; Stoddard S F
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
(STOD-I) STODDARD S F.

PATENT INFO: WO 2001077348 A2 20011018 116p
APPLICATION INFO: WO 2001-US11097 20010405
PRIORITY INFO: US 2000-194627P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-041295 [05]

AB The present invention relates to a new bacterium of genus **Ketogulonigenium**. **Ketogulonigenium** may further comprise a transgene, comprising a DNA sequence from an endogenous **Ketogulonigenium plasmid**. Methods for transforming **Ketogulonigenium** are also described. The invention is useful for producing 2-keto-L-gulonic acid (2-KLG) from L-sorbose or sorbitol. The present sequence represents the nucleotide sequence of the **replicon** on the **Ketogulonigenium** endogenous **plasmid** pADMX6L2.

L4 ANSWER 26 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS17123 DNA DGENE

TITLE: New bacterium of **Ketogulonigenium** genus, useful for producing 2-keto-L-gulonic acid from sorbose or sorbitol, comprises transgene containing DNA sequence from endogenous **Ketogulonigenium plasmid** -

INVENTOR: D'Elia J; Stoddard S F
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
(STOD-I) STODDARD S F.

PATENT INFO: WO 2001077348 A2 20011018 116p
APPLICATION INFO: WO 2001-US11097 20010405
PRIORITY INFO: US 2000-194627P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-041295 [05]

AB The present invention relates to a new bacterium of genus **Ketogulonigenium**. **Ketogulonigenium** may further comprise a transgene, comprising a DNA sequence from an endogenous **Ketogulonigenium plasmid**. Methods for transforming **Ketogulonigenium** are also described. The invention is useful for producing 2-keto-L-gulonic acid (2-KLG) from L-sorbose or sorbitol. The present sequence represents the nucleotide sequence of **replicon** #1 on the **Ketogulonigenium** endogenous **plasmid**

pADMX6L1: Note: The present sequence for SEQ ID No 5 given in Fig 5 is different from the one given for SEQ ID No 5 in the sequence listing (AAS17226).

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 688 FILE VETB
 1638 FILE VETU
 60496 FILE WPIDS
 60496 FILE WPINDEX

L1 QUE PLASMID OR VECTOR

FILE 'BIOSIS, CAPLUS, SCISEARCH, PASCAL, DGENE, MEDLINE, EMBASE' ENTERED
 AT 16:30:06 ON 17 OCT 2002

L2 37 S L1 AND KETOGULONIGENIUM
 L3 26 S L2 AND REPLICON
 L4 26 DUP REM L3 (0 DUPLICATES REMOVED)

=> s l2 and py<2000

2 FILES SEARCHED...

4 FILES SEARCHED...

L5 0 L2 AND PY<2000

=> d l4 ibib ab 1-15

L4 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:763210 CAPLUS

DOCUMENT NUMBER: 135:314500

TITLE: Isolation of **Ketogulonigenium** endogenous
plasmids and their encoded replication
 proteins and application

INVENTOR(S): D'elia, John; Stoddard, Steven F.

PATENT ASSIGNEE(S): Archer-Daniels-Midland Company, USA

SOURCE: PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077348	A2	20011018	WO 2001-US11097	20010405

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
 HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
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 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002006665 A1 20020117 US 2001-826191 20010405

PRIORITY APPLN. INFO.: US 2000-194627P P 20000405

AB The present invention relates, in general, to a novel genus of bacteria
 known as **Ketogulonigenium**. Specifically, four **plasmids**
 are isolated from **Ketogulonigenium** including pADMX6L1, pADMX6L2,
 pADMX6L3, and pADMX6IA. Based on sequence similarity to known
plasmid-encoded replication proteins, **plasmids** pADMX6L1,

pADMX6L2, and pADMX6L3 are found to encode potential **plasmid** replication proteins. The present invention further relates to transformed **Ketogulonigenium**, and methods of transforming **Ketogulonigenium**. These **plasmids** from the genus **Ketogulonigenium** may be useful as a basis for cloning and expression **vectors** for ketogulogenic (2-keto-L-gulonic acid-synthesizing genera) bacteria.

L4 ANSWER 2 OF 26 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:763209 CAPLUS
 DOCUMENT NUMBER: 135:314499
 TITLE: **Ketogulonigenium** endogenous **plasmid** pADM291, its derived shuttle **vectors** and their application
 INVENTOR(S): D'elia, John
 PATENT ASSIGNEE(S): Archer-Daniels-Midland Company, USA
 SOURCE: PCT Int. Appl., 66 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077347	A2	20011018	WO 2001-US11059	20010405
WO 2001077347	A3	20020328		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002039761 A1 20020404 US 2001-826206 20010405

PRIORITY APPLN. INFO.: US 2000-194625P P 20000405

AB The present invention relates, in general, to **vectors** comprising **Ketogulonigenium** replicons. More specifically, the present invention relates to **vectors** comprising a **Ketogulonigenium** replicon found on the endogenous **plasmid** pADM291 and its derived shuttle **vectors**. The **plasmid** is from the genus **Ketogulonigenium** and may be useful as a basis for cloning and expression **vectors** for ketogulogenic (2-keto-L-gulonic acid-synthesizing genera) bacteria. The present invention further relates to transformed **Ketogulonigenium**, and methods of transforming **Ketogulonigenium**.

L4 ANSWER 3 OF 26 DGENE (C) 2002 THOMSON DERWENT
 ACCESSION NUMBER: AAS18325 DNA DGENE
 TITLE: Novel nucleic acid **vector** comprising **Ketogulonigenium** replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector**
 INVENTOR: D'Elia J
 PATENT ASSIGNEE: (ARCH) ARCHER-DANIELS MIDLAND CO.
 (DELI-I) D'ELIA J.
 PATENT INFO: WO 2001077347 A2 20011018 66p
 APPLICATION INFO: WO 2001-US11059 20010405
 PRIORITY INFO: US 2000-194625P 20000405
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 OTHER SOURCE: 2002-049150 [06]
 AB The present invention relates to the isolation of **vectors**

comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid** pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and *Escherichia coli*, enable the cloning of certain genes of **Ketogulonigenium** in *E.coli* as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments

of

the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 4 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18324 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -

INVENTOR: D'Elia J

PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I) D'ELIA J.

PATENT INFO: WO 2001077347 A2 20011018 66p

APPLICATION INFO: WO 2001-US11059 20010405

PRIORITY INFO: US 2000-194625P 20000405

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and *Escherichia coli*, enable the cloning of certain genes of **Ketogulonigenium** in *E.coli* as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments

of

the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 5 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18323 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -

INVENTOR: D'Elia J

PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I) D'ELIA J.

PATENT INFO: WO 2001077347 A2 20011018 66p

APPLICATION INFO: WO 2001-US11059 20010405

PRIORITY INFO: US 2000-194625P 20000405

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes

methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and *Escherichia coli*, enable the cloning of certain genes of **Ketogulonigenium** in *E. coli* as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments

of

the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 6 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18322 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -

INVENTOR:

D'Elia J

PATENT ASSIGNEE:

(ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I)

D'ELIA J.

PATENT INFO:

WO 2001077347 A2 20011018

66p

APPLICATION INFO:

WO 2001-US11059 20010405

PRIORITY INFO:

US 2000-194625P 20000405

DOCUMENT TYPE:

Patent

LANGUAGE:

English

OTHER SOURCE:

2002-049150 [06]

AB

The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and *Escherichia coli*, enable the cloning of certain genes of **Ketogulonigenium** in *E. coli* as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments

of

the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 7 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18321 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -

INVENTOR:

D'Elia J

PATENT ASSIGNEE:

(ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I)

D'ELIA J.

PATENT INFO:

WO 2001077347 A2 20011018

66p

APPLICATION INFO:

WO 2001-US11059 20010405

PRIORITY INFO:

US 2000-194625P 20000405

DOCUMENT TYPE:

Patent

LANGUAGE:

English

OTHER SOURCE:

2002-049150 [06]

AB

The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the

transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and *Escherichia coli*, enable the cloning of certain genes of **Ketogulonigenium** in *E. coli* as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 8 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18320 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising
Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both **Ketogulonigenium** and *Escherichia coli*, enable the cloning of certain genes of **Ketogulonigenium** in *E. coli* as the latter is an efficient host for amplification of **vector** DNA. AAS18310-AAS18325 represent PCR primers used to generate DNA fragments of the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 9 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18319 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising
Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors**

which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of
certain genes of **Ketogulonigenium** in *E.coli* as the latter is an
efficient host for amplification of **vector** DNA.
AAS18310-AAS18325 represent PCR primers used to generate DNA fragments
of
the **Ketogulonigenium** endogenous **plasmid** pADM291 in
the methods of the present invention.

L4 ANSWER 10 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18318 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising
Ketogulonigenium replicon found on a
specific deposited endogenous **plasmid**, useful for
producing polypeptides and/or transcripts by culturing host
cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors**
comprising a **Ketogulonigenium replicon** found on the
endogenous **plasmid**, pADM291. The invention also describes
methods of transforming host cells with the **vectors** and
producing polypeptides and/or antisense transcripts by culturing the
transformed host cells. The **vectors** are useful for transforming
a host cell by conjugation or electroporation. The **vectors**
which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of
certain genes of **Ketogulonigenium** in *E.coli* as the latter is an
efficient host for amplification of **vector** DNA.
AAS18310-AAS18325 represent PCR primers used to generate DNA fragments
of
the **Ketogulonigenium** endogenous **plasmid** pADM291 in
the methods of the present invention.

L4 ANSWER 11 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18317 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising
Ketogulonigenium replicon found on a
specific deposited endogenous **plasmid**, useful for
producing polypeptides and/or transcripts by culturing host
cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors**
comprising a **Ketogulonigenium replicon** found on the
endogenous **plasmid**, pADM291. The invention also describes
methods of transforming host cells with the **vectors** and
producing polypeptides and/or antisense transcripts by culturing the
transformed host cells. The **vectors** are useful for transforming
a host cell by conjugation or electroporation. The **vectors**
which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of

certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA.
AAS18310-AAS18325 represent PCR primers used to generate DNA fragments

of

the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 12 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18316 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -

INVENTOR:

D'Elia J

PATENT ASSIGNEE:

(ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I)

D'ELIA J.

PATENT INFO:

WO 2001077347 A2 20011018

66p

APPLICATION INFO:

WO 2001-US11059 20010405

PRIORITY INFO:

US 2000-194625P 20000405

DOCUMENT TYPE:

Patent

LANGUAGE:

English

OTHER SOURCE:

2002-049150 [06]

AB

The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both

Ketogulonigenium and *Escherichia coli*, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA.

AAS18310-AAS18325 represent PCR primers used to generate DNA fragments

of

the **Ketogulonigenium** endogenous **plasmid** pADM291 in the methods of the present invention.

L4 ANSWER 13 OF 26 DGENE (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: AAS18315 DNA DGENE

TITLE: Novel nucleic acid **vector** comprising

Ketogulonigenium replicon found on a specific deposited endogenous **plasmid**, useful for producing polypeptides and/or transcripts by culturing host cells transformed with **vector** -

INVENTOR:

D'Elia J

PATENT ASSIGNEE:

(ARCH)ARCHER-DANIELS MIDLAND CO.

(DELI-I)

D'ELIA J.

PATENT INFO:

WO 2001077347 A2 20011018

66p

APPLICATION INFO:

WO 2001-US11059 20010405

PRIORITY INFO:

US 2000-194625P 20000405

DOCUMENT TYPE:

Patent

LANGUAGE:

English

OTHER SOURCE:

2002-049150 [06]

AB

The present invention relates to the isolation of **vectors** comprising a **Ketogulonigenium replicon** found on the endogenous **plasmid**, pADM291. The invention also describes methods of transforming host cells with the **vectors** and producing polypeptides and/or antisense transcripts by culturing the transformed host cells. The **vectors** are useful for transforming a host cell by conjugation or electroporation. The **vectors** which have a **replicon** functional in both

Ketogulonigenium and *Escherichia coli*, enable the cloning of certain genes of **Ketogulonigenium** in E.coli as the latter is an efficient host for amplification of **vector** DNA.

AAS18310-AAS18325 represent PCR primers used to generate DNA fragments
of
the **Ketogulonigenium** endogenous **plasmid** pADM291 in
the methods of the present invention.

L4 ANSWER 14 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18314 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising
Ketogulonigenium replicon found on a
specific deposited endogenous **plasmid**, useful for
producing polypeptides and/or transcripts by culturing host
cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors**
comprising a **Ketogulonigenium replicon** found on the
endogenous **plasmid**, pADM291. The invention also describes
methods of transforming host cells with the **vectors** and
producing polypeptides and/or antisense transcripts by culturing the
transformed host cells. The **vectors** are useful for transforming
a host cell by conjugation or electroporation. The **vectors**
which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of
certain genes of **Ketogulonigenium** in *E.coli* as the latter is an
efficient host for amplification of **vector** DNA.
AAS18310-AAS18325 represent PCR primers used to generate DNA fragments
of
the **Ketogulonigenium** endogenous **plasmid** pADM291 in
the methods of the present invention.

L4 ANSWER 15 OF 26 DGENE (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: AAS18313 DNA DGENE
TITLE: Novel nucleic acid **vector** comprising
Ketogulonigenium replicon found on a
specific deposited endogenous **plasmid**, useful for
producing polypeptides and/or transcripts by culturing host
cells transformed with **vector** -
INVENTOR: D'Elia J
PATENT ASSIGNEE: (ARCH)ARCHER-DANIELS MIDLAND CO.
(DELI-I) D'ELIA J.
PATENT INFO: WO 2001077347 A2 20011018 66p
APPLICATION INFO: WO 2001-US11059 20010405
PRIORITY INFO: US 2000-194625P 20000405
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-049150 [06]

AB The present invention relates to the isolation of **vectors**
comprising a **Ketogulonigenium replicon** found on the
endogenous **plasmid**, pADM291. The invention also describes
methods of transforming host cells with the **vectors** and
producing polypeptides and/or antisense transcripts by culturing the
transformed host cells. The **vectors** are useful for transforming
a host cell by conjugation or electroporation. The **vectors**
which have a **replicon** functional in both
Ketogulonigenium and *Escherichia coli*, enable the cloning of
certain genes of **Ketogulonigenium** in *E.coli* as the latter is an
efficient host for amplification of **vector** DNA.
AAS18310-AAS18325 represent PCR primers used to generate DNA fragments
of

the **Ketogulonigenium** endogenous **plasmid** pADM291 in
the methods of the present invention.

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L1: Entry 1 of 6

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020064871
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020064871 A1

TITLE: Endogenous ketogulonigenium plasmid

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schmidt, Thomas M.	East Lansing	MI	US	
Stoddard, Steven F.	Decatur	IL	US	

US-CL-CURRENT: 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 20020039761 A1

L1: Entry 2 of 6

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020039761
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020039761 A1

TITLE: Ketogulonigenium shuttle vectors

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
D' Elia, John	Champaign	IL	US	

US-CL-CURRENT: 435/69.1, 435/252.3, 435/320.1, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 20020006665 A1

L1: Entry 3 of 6

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006665
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020006665 A1

TITLE: Ketogulonigenium endogenous plasmids

PUBLICATION-DATE: January 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
D'Elia, John	Champaign	IL	US	
Stoddard, Steven F.	Decatur	IL	US	

US-CL-CURRENT: 435/476; 435/252.3, 435/252.33, 435/320.1, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 20020039761 A1 WO 200177347 A2 AU 200153162 A

L1: Entry 4 of 6

File: DWPI

Apr 4, 2002

DERWENT-ACC-NO: 2002-049150

DERWENT-WEEK: 200227

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TITLE: Novel nucleic acid vector comprising Ketogulonigenium replicon found on a specific deposited endogenous plasmid, useful for producing polypeptides and/or transcripts by culturing host cells transformed with vector

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: AU 200151342 A WO 200177348 A2 US 2002006665 A1

L1: Entry 5 of 6

File: DWPI

Oct 23, 2001

DERWENT-ACC-NO: 2002-041295

DERWENT-WEEK: 200213

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TITLE: New bacterium of Ketogulonigenium genus, useful for producing 2-keto-L-gulonic acid from sorbose or sorbitol, comprises transgene containing DNA sequence from endogenous Ketogulonigenium plasmid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 6. Document ID: US 20020064871 A1 WO 200177159 A2 AU 200151324 A

L1: Entry 6 of 6

File: DWPI

May 30, 2002

DERWENT-ACC-NO: 2001-657165

DERWENT-WEEK: 200240

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TITLE: New nucleic acid comprising the sequence of a Ketogulonigenium plasmid designated pADM291 is endogenous to microorganism strain NRRL B-30035

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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